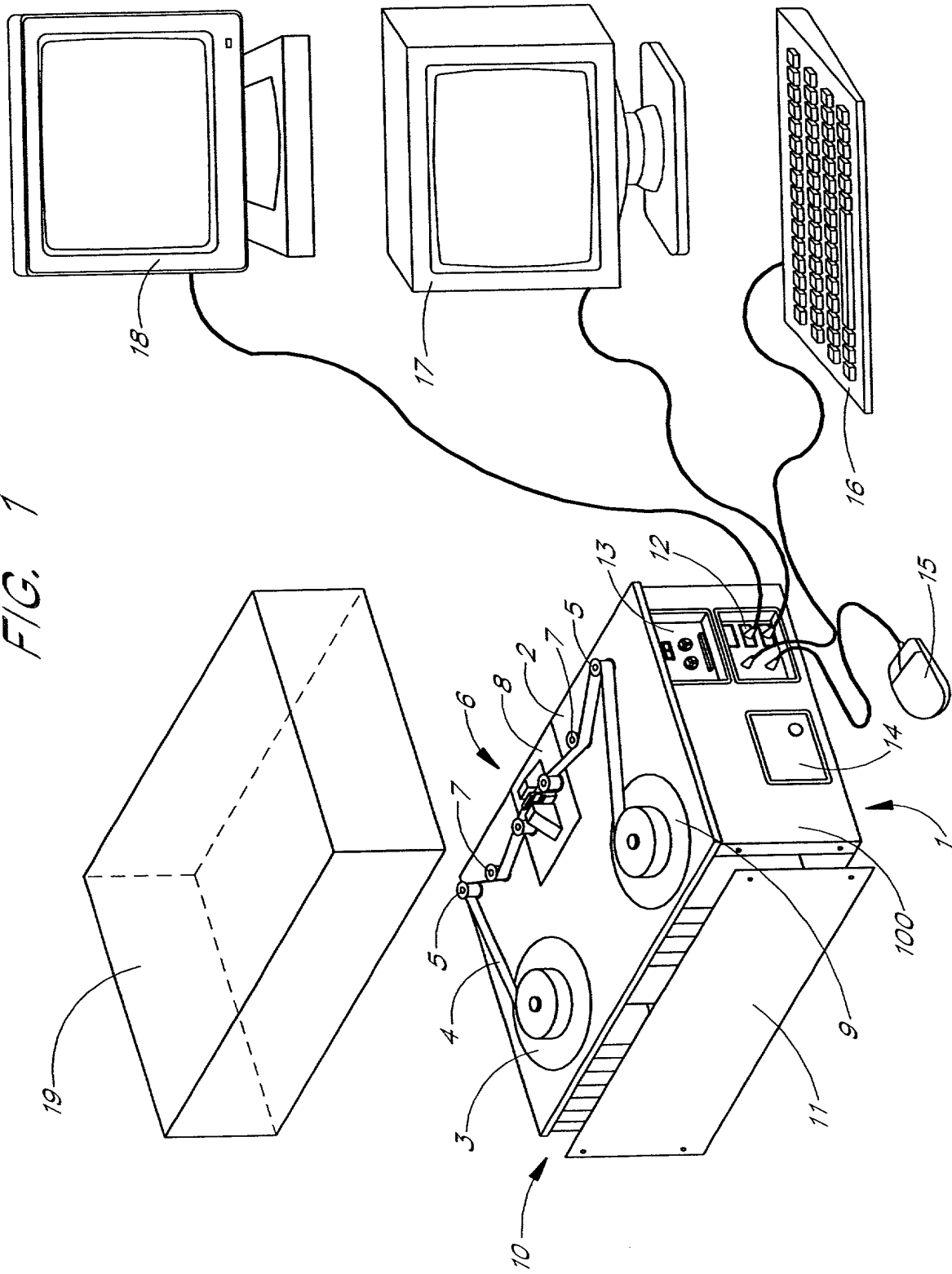


FIG. 1



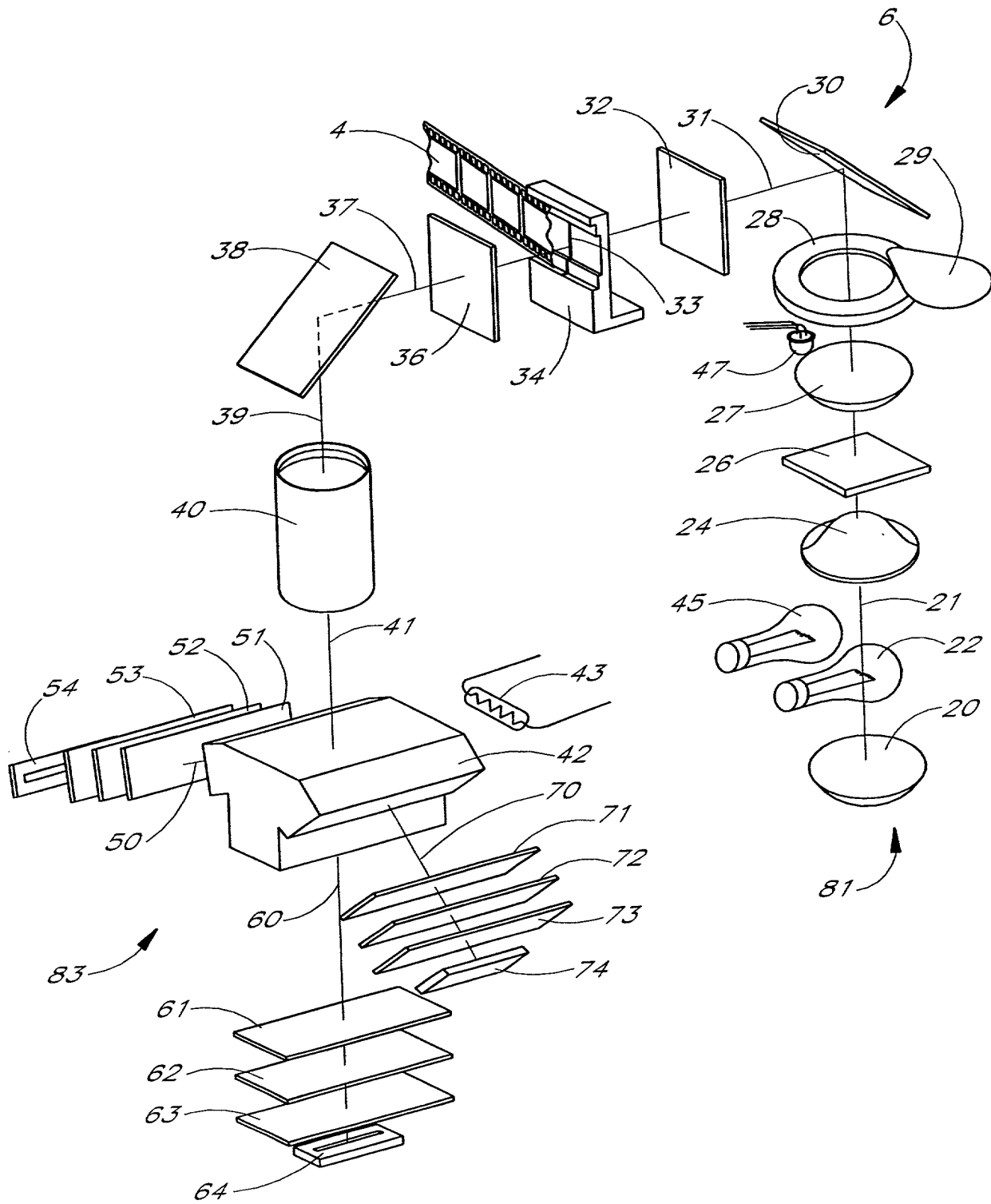


FIG. 2

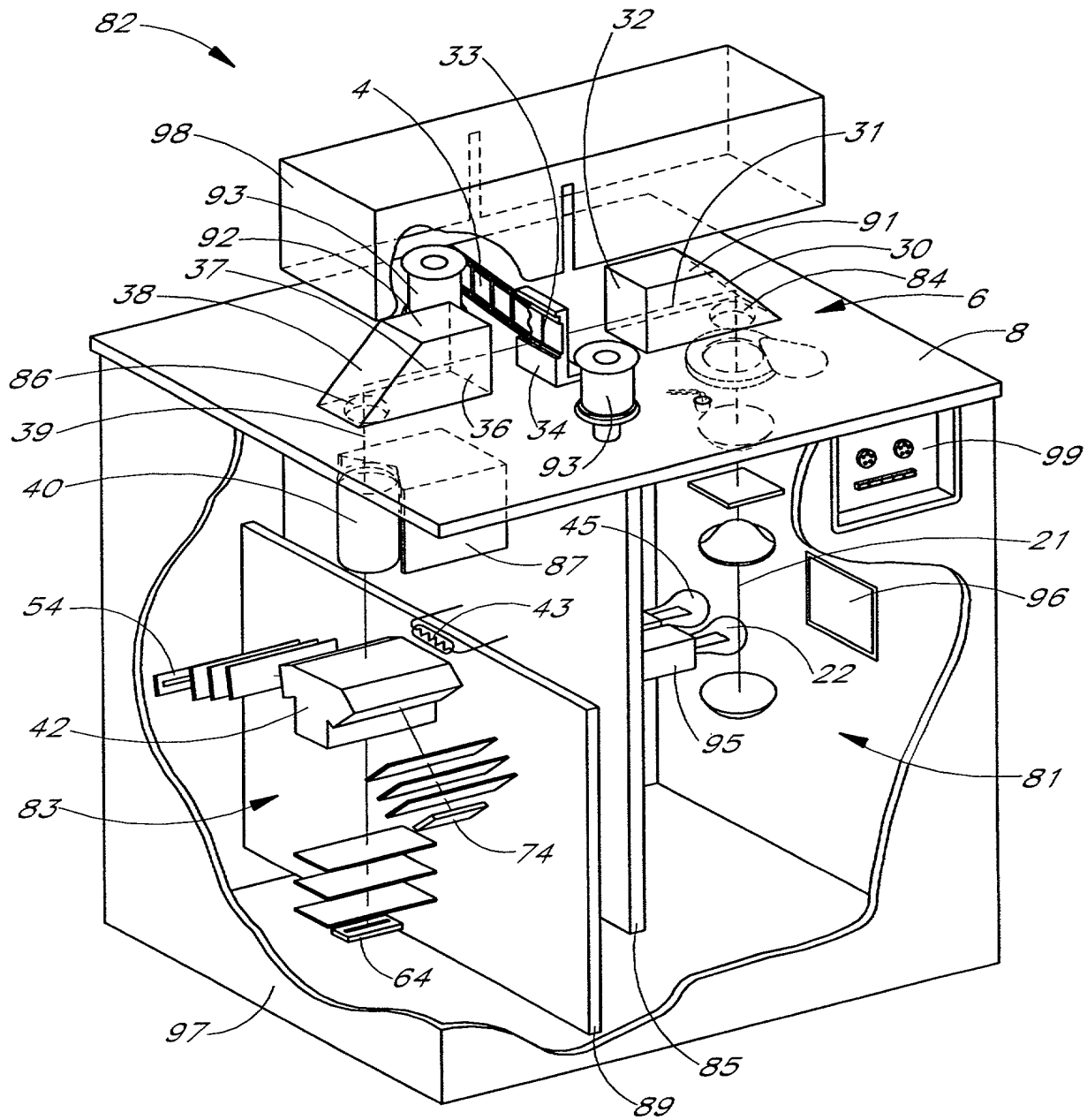


FIG. 3

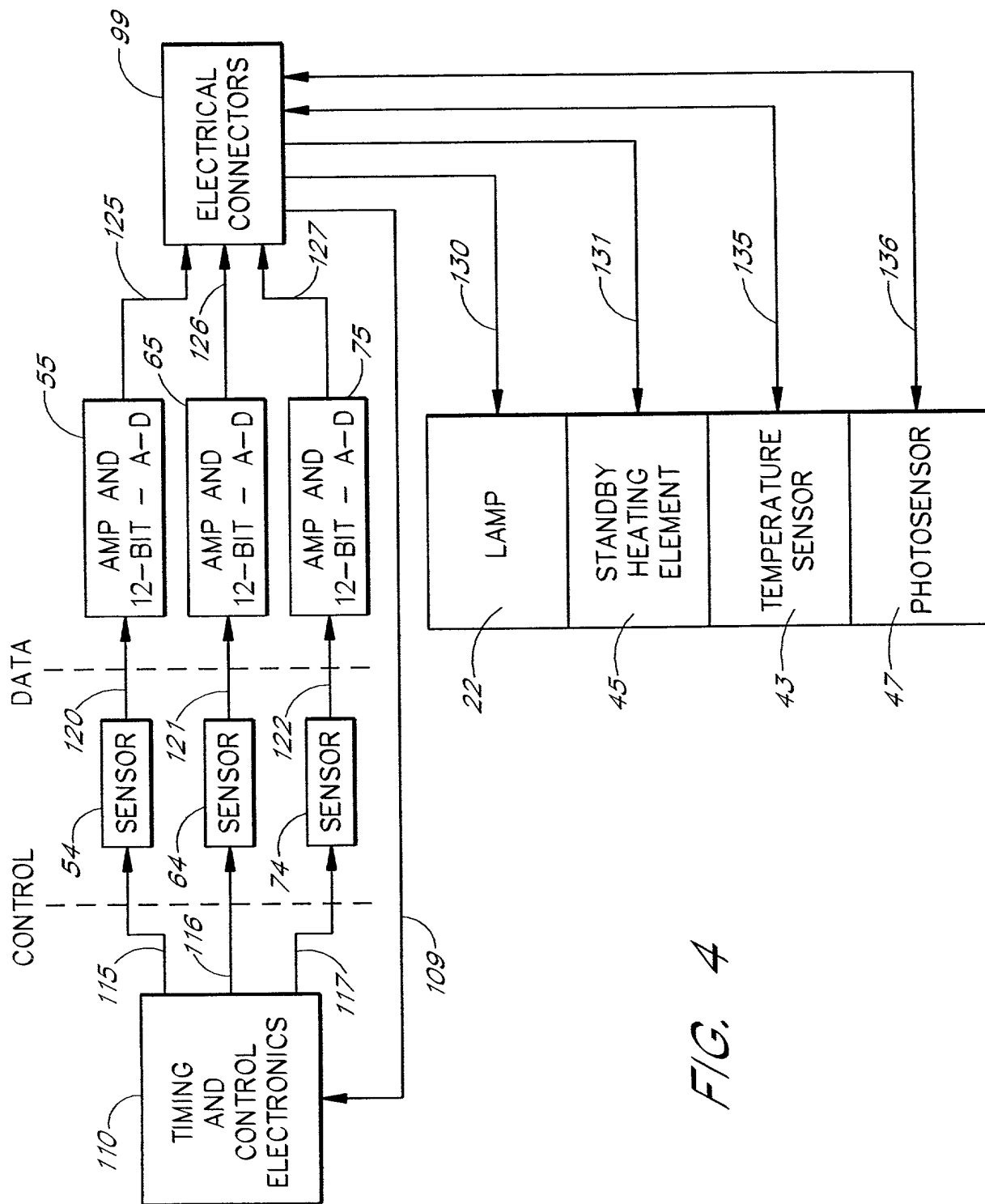


FIG. 4

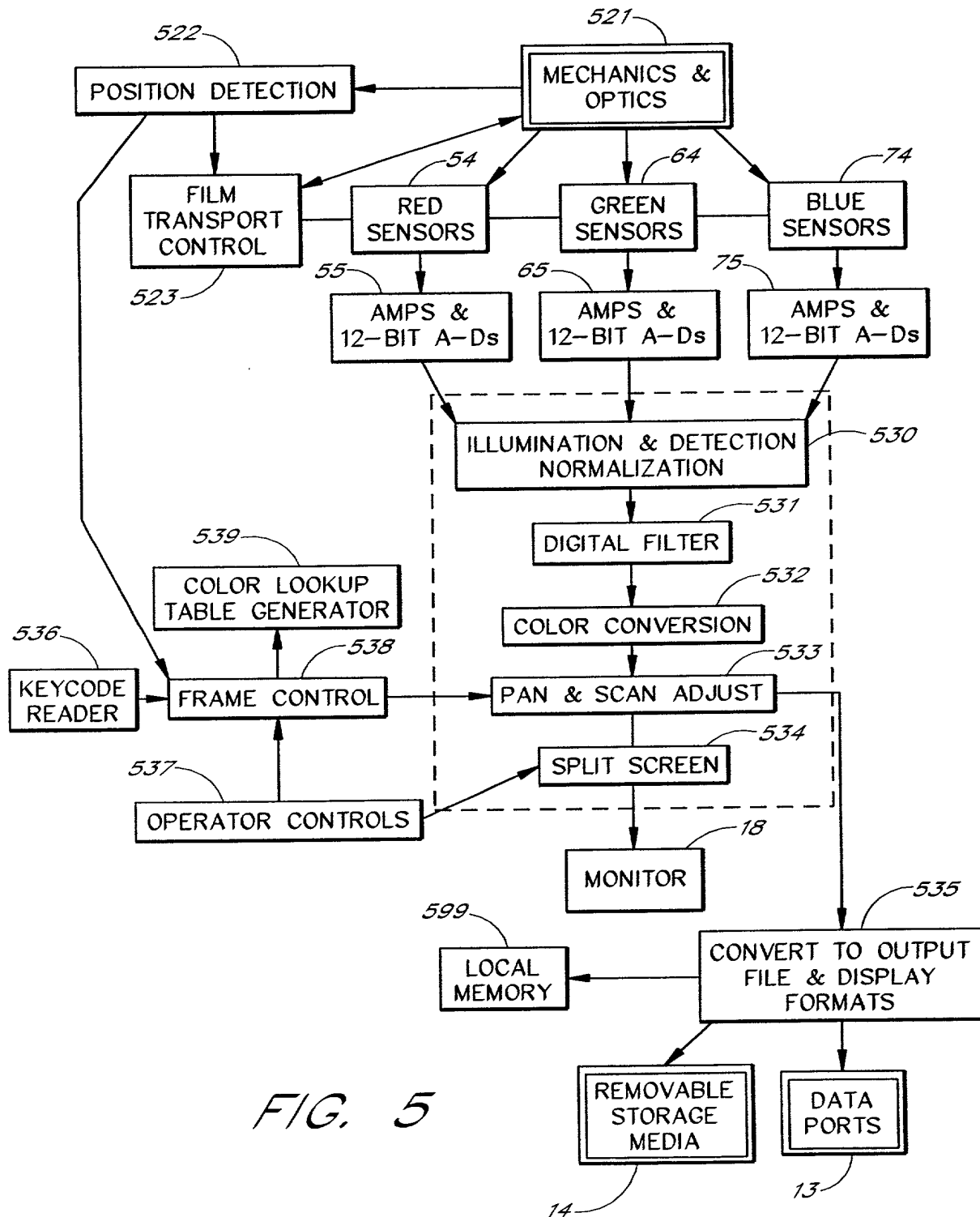


FIG. 5

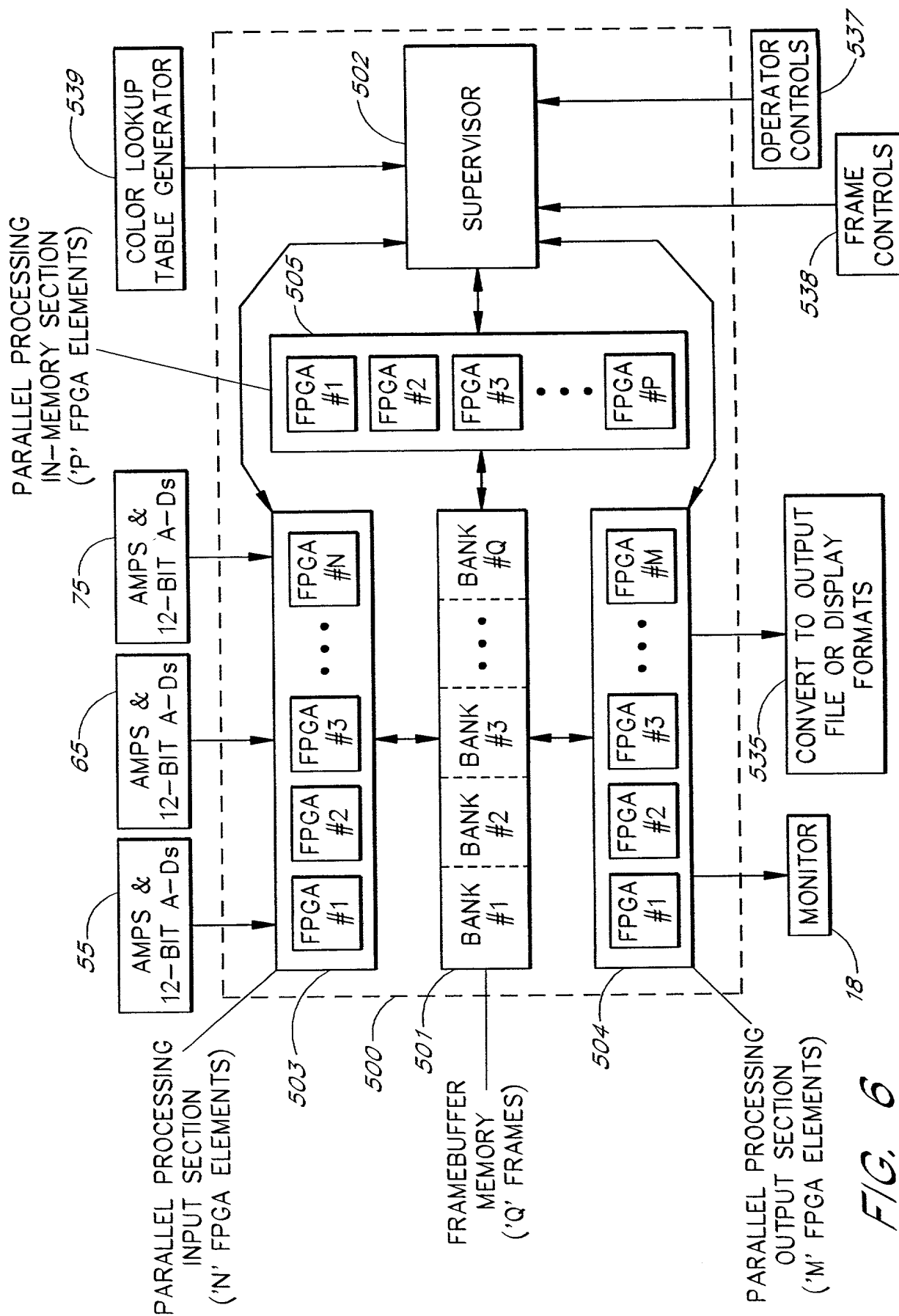


FIG. 6

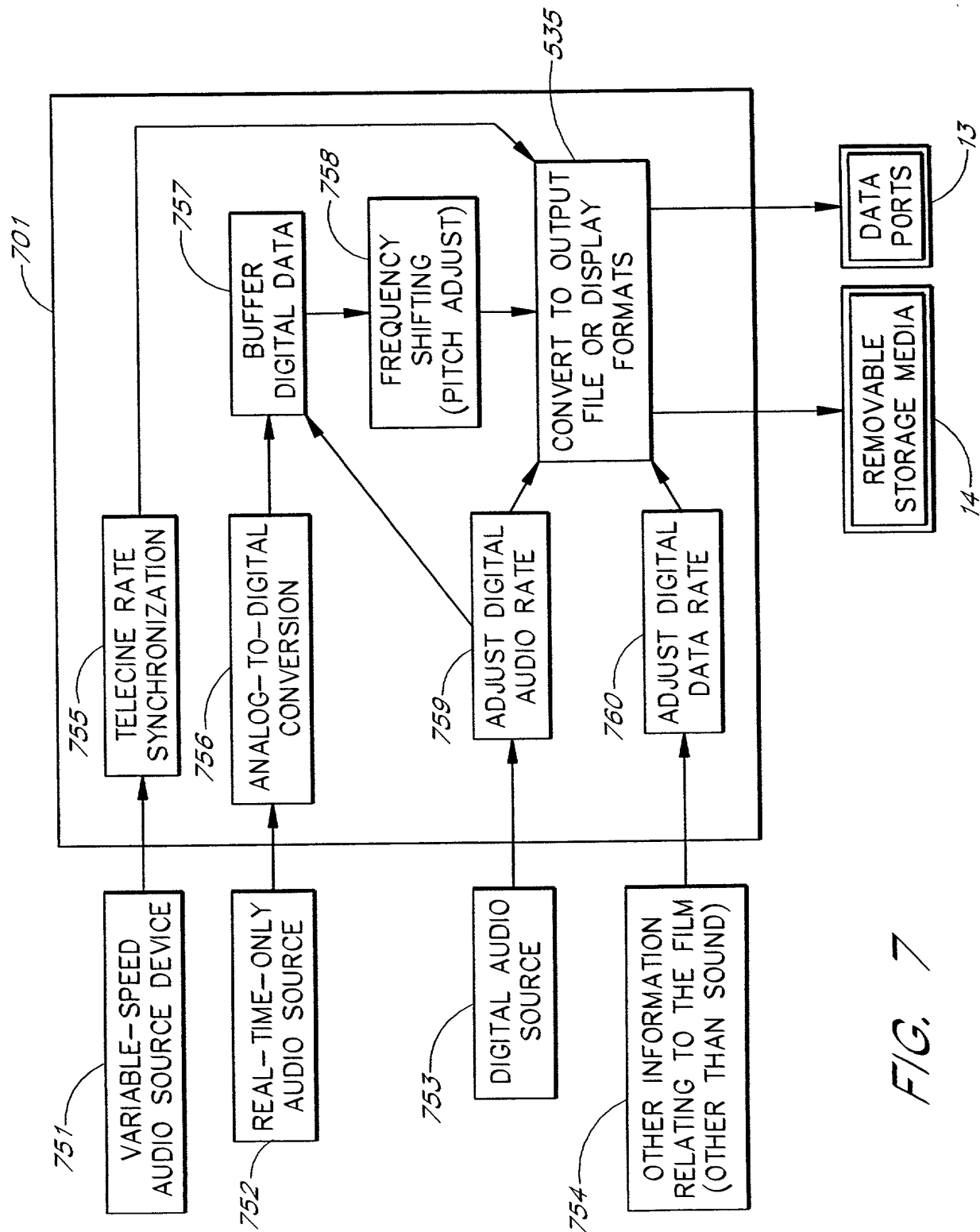


FIG. 7

TABLE A — FILM INPUT FORMATS

| 35 mm FILM FORMAT ¹ | ASPECT FORMAT | IMAGE WIDTH (INCHES) | IMAGE HEIGHT (INCHES) | IMAGE TO FILM FRAME RATIO |
|-----------------------------------|------------------|----------------------------|-----------------------------|---------------------------------|
| FULL-FRAME (SUPER 35) | 1.33: 1 | 0.981 | 0.735 | 1.02 |
| ACADEMY | 1.37: 1 | 0.864 | 0.630 | 1.18 |
| ANAMORPHIC | 1.18: 1 | 0.864 | 0.630 | 1.18 |
| 1.85: 1 | 1.84: 1 | 0.864 | 0.469 | 1.59 |
| 3 Perf 1.85: 1 | 1.84: 1 | 0.864 | 0.560 | 1.33 |
| TV 4: 3 | 1.33: 1 | 0.816 | 0.612 | 1.22 |
| TV 16: 9 | 1.78: 1 | 0.816 | 0.531 | 1.41 |
| 3 Perf TV 16: 9 | 1.78: 1 | 0.816 | 0.560 | 1.33 |

¹4 PERF UNLESS OTHERWISE SPECIFIED

TABLE B — TELECINE TO SDTV THROUGHPUT RATES

| 35 mm FILM FORMAT ¹ | SDTV | | | | | |
|-----------------------------------|------------------------|---------------|-------------------------|------------------------|---------------|-------------------------|
| | 480 X 640 SCAN | | | 480 X 704 SCAN | | |
| | EXPOSURE (μ s) | RATE (FPS) | x REAL-TIME (24 FPS) | EXPOSURE (μ s) | RATE (FPS) | x REAL-TIME (24 FPS) |
| FULL-FRAME (SUPER 35) | 10.73 | 190.29 | 7.93 | 11.80 | 173.09 | 7.21 |
| ACADEMY | | 164.49 | 6.85 | | 149.62 | 6.23 |
| ANAMORPHIC | | 164.49 | 6.85 | | 149.62 | 6.23 |
| 1.85: 1 | | 122.08 | 5.09 | | 111.04 | 4.63 |
| 3 Perf 1.85: 1 | | 145.94 | 6.08 | | 132.75 | 5.53 |
| TV 4: 3 | | 159.10 | 6.63 | | 144.72 | 6.03 |
| TV 16: 9 | | 137.66 | 5.74 | | 125.22 | 5.22 |
| 3 Perf TV 16: 9 | | 145.94 | 6.08 | | 132.75 | 5.53 |

¹4 PERF UNLESS OTHERWISE SPECIFIED

FIG. 8A

TABLE C — TELECINE TO HDTV THROUGHPUT RATINGS

| 35 mm FILM FORMAT ¹ | HDTV | | | | | |
|-----------------------------------|------------------------|---------------|-------------------------|------------------------|---------------|-------------------------|
| | 720 x 1280 SCAN | | | 1080 x 1920 SCAN | | |
| | EXPOSURE (μ s) | RATE (FPS) | x REAL-TIME (24 FPS) | EXPOSURE (μ s) | RATE (FPS) | x REAL-TIME (24 FPS) |
| FULL-FRAME (SUPER 35) | 21.40 | 63.63 | 2.65 | 32.07 | 28.31 | 1.18 |
| ACADEMY | | 55.00 | 2.29 | | 24.47 | 1.02 |
| ANAMORPHIC | | 55.00 | 2.29 | | 24.47 | 1.02 |
| 1.85: 1 | | 40.82 | 1.70 | | 18.16 | 0.76 |
| 3 Perf 1.85: 1 | | 48.80 | 2.03 | | 21.71 | 0.90 |
| TV 4: 3 | | 53.20 | 2.22 | | 23.67 | 0.99 |
| TV 16: 9 | | 46.03 | 1.92 | | 20.48 | 0.85 |
| 3 Perf TV 16: 9 | | 48.80 | 2.03 | | 21.71 | 0.90 |

¹4 PERF UNLESS OTHERWISE SPECIFIED

TABLE D — VIDEO OUTPUT FORMATS

| VIDEO FORMAT | | | INTERLACE | ASPECT RATIO | FRAME RATES ¹ (Hz) | FILM INPUT SCAN RATE (FPS) | REAL-TIME TELECINE THROUGHPUT ² |
|--------------|------|-------------|-----------|--------------|-------------------------------|----------------------------|--|
| TV | | NTSC | i | 4:3 | 29.97 | 48 | x 5 |
| | | PAL | i | 4:3 | 25 | 48 | x 5 |
| | | SECAM | i | 4:3 | 25 | 48 | x 5 |
| DTV | SDTV | 480 x 640 | i | 4:3 | 30 | 48 | x 5 |
| | | 480 x 640 | P | 4:3 | 24, 30, 60 | 48 | x 5 |
| | | 480 x 704 | i | 16:9 | 30 | 48 | x 2 |
| | | 480 x 704 | P | 16:9 | 24, 30, 60 | 48 | x 2 |
| | HDTV | 720 x 1280 | P | 16:9 | 24, 30, 60 | 24 | x 1 |
| | | 1080 x 1920 | i | 16:9 | 30 | 18 | x $\frac{3}{4}$ |
| | | 1080 x 1920 | P | 16:9 | 24, 30 | 18 | x $\frac{3}{4}$ |

¹WITH REQUISITE PULLDOWNS²WITH FILM SHOT AT 24 FPS

FIG. 8B